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10/633,694	08/05/2003	Jeffrey A. Anderson	14917.0002	7611
27890 7590 94/02/2008 STEPTOE & JOHNSON LLP 1330 CONNECTICUT AVENUE, N.W.			EXAMINER	
			CHAPMAN, JEANETTE E	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/633,694 ANDERSON, JEFFREY A. Office Action Summary Examiner Art Unit Jeanette E. Chapman 3633 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 24 October 2007. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-30.32-34.36-44.49-51 and 53-58 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-30.32-34,36-44,49-51 and 53-58 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date.

Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date __

5) Notice of Informal Patent Application

6) Other:

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The amendment filed 11/9/06 is objected to under 35 U.S.C. 132(a) because it introduces new matter into the disclosure. 35 U.S.C. 132(a) states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows: "the ratio of the distance between adjacent slots prior to expansion to a width of the formed metal sheet prior to expansion is 1:8 or greater".

Applicant is required to cancel the new matter in the reply to this Office Action. Claims 1, 3-15, 27-30, 32-34, 36-44, 49-51, 53-58 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. See above.

Claim Rejections. 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention Was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3-15, 17-30, 32-51 and 53-59 are rejected under 35 U.S.C. 103(a) as being Unpatentable over KNAUF (DE 2,336,378) in view of Sucato et al (5605024), Herren (5913788) and Bodnar (5527625).

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Knauf discloses a metal framing member 1 comprising:

- a formed metal sheet 2 including a plurality of expanded web slots 9 in a region

of the formed sheet metal;

-the expanded web slots include voids and metal web elements 10 in the region

of the framing elements;

-the web region and first/second flanges ¾ extending from the web region are the

surfaces the u-shaped elements 2; the first and second flanges are parallel;

-the first and second flanges include expanded web slots; the legs 5/6 on the u- shaped

members are the closing regions extending the first flange to the second, standard for

metal studs, to form the substantially tubular structure;

-Each web slot extends along a length of the framing member:

Sucato et al discloses a metal framing member 61 comprising:

- a formed metal sheet including a plurality of expanded web slots in a region 64/65 of

the formed sheet metal; (see column.4, lines 22-30);

- the expanded web slots include voids and metal web elements 62/63 in the region of

the framing elements;

- the web region and first/second flanges extending from the web region are the

surfaces shown in figures 20-21 of the u-shaped elements 62/63; the first and second

flanges are parallel;

- the web region include expanded web slots shown in figure 21

- the first and second flanges include expanded web slots; the legs on the u- shaped

members 62/63 are the closing regions extending the first flange to the second,

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standard for metal studs, to form the substantially tubular structure;

- -Each web slot extends along a length of the framing member;
- The plurality of web slots are arranged in offset five or more columns parallel to the length of the framing member; see figures 20-21;
- Darts or dimples 66 proximate the web slots
- -Each expanded web slot has a length to width ratio of about 2:1 or greater;

 Regarding claims 10: It is clear that the expanded slots may be formed on any surface were the accompanying function of providing reduction in material content, minimal heat transfer and noise reduction

The method of manufacturer a framing member comprises:

- -providing a formed sheet having a length and a web region
- placing a plurality of slots, formed by stamping, along a portion of the length of the web region; stamping to form the mesh may include passing the sheet of a block in order to provide a substrate for performing the stamping process;
- stamping includes piercing slots into the region;
- -expanding the slots includes mechanically moving the sides of the region apart; see figure 20-21

It would have been obvious to provide any treatment process to strengthen the integrity of the opening at the perimeter edge; one of ordinary skill in the art would have appreciated employing all known and available means to strengthen the perimeter around the opening to create a better product capable of functioning as intended. Knauf discloses all of the above except for the reinforcements and shown expansion of the

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slots and the darts of the dimples. The method of expansion shown in figures 20-21 is obvious manner of forming the voids and varying their size.

Bodnar discloses the heat treating process to form the beam and openings. See column 7, lines 50 thru column 8, line 65. It would have been obvious to employ this method to increase the strength of the metal thus also the beam as disclosed by Bodnar.

The form the metal sheet assumes prior to use is a matter of choice; one of ordinary skill in the art would have appreciated using any sheet from any source that is capable of being transported to the place of manufacture. As with any stud/beam, web the uses are limitless, it is obvious that such studs with openings'/slots may be used to provide for utility wiring and the like; the use of the stud is at the discretion and selection of the construction process and the participants.

Sucato et al shows darts or dimples 66 proximate the slots but lacks the plurality of reinforcements also proximate the web slots. Herren also shows a beam with slots and reinforcements 39 proximate the slot proximate to the web slots and confined to the web elements and exclusive to the web voids. The reinforcements are in the web region positioned along the length.

Bodnar also shows a beam with slots 922 and reinforcements

94,96,98,100,102,104 proximate the slot proximate to the web slots and confined to the web elements and exclusive to the web voids. Bodnar's reinforcements include darts or dimples, including 108 and 110. It would have been obvious to one of ordinary skill in the art to modify Knauf et al by imparting the reinforcements proximate the slots to strengthen the beam structure. The time at which the reinforcements are placed or

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formed with regard to the slot has been considered a matter of choice not critical or significant to the claimed structure. The limitation of claim 58 lacks criticality. One of ordinary skill in the art would have appreciated forming the reinforcements at any time suitable to the construction process which will maintain the structural integrity of the member

Response to Arguments

Applicant's arguments filed 10/24/07 have been fully considered but they are not persuasive.

Arguments regarding the rejection under 35 USC 112:

Applicant's disclosure on page 5 line, 18-20 and lines 28-30 and page 6, lines 25-26 and similar disclosures of ratio values are not sufficient to provide support to the expansion values given in percentages. Applicant references figure 6 as proof for the recited 1:8 ratio. Figures 1 and 6 merely show an expansion of width not the specific value. Therefore the new matter rejection is maintained and applicant's arguments remain unpersuasive. Arguments regarding the new matter rejection are moot given the recited 1:8 ratio has not been considered as a part of the recited subject matter. In the instance applicant intended to recite the language of his specification page 6, line 26, were percentage values are disclosed: Knauf discloses an expansion in width and the degree of expansion depends on the use of the profile or metal framing as seen in Knauf's figures 1 and 2. Figures 1 and 2 discloses a sheet metal profile having a c-shaped cross section between two shell wall and figure 2 shows a sheet metal profile

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having a trapezoidal cross section. The two figures show two different expansion ranges.

Again the examiner is not addressing the recited "the ratio of the distance between adjacent slots prior to expansion to a width of the formed metal sheet prior to expansion is 1:8 or greater" with respect to the prior art because of the new matter rejection above renders the such a discussion moot.

Arguments regarding the rejection under 35 USC 103:

Knauf and Scucato discloses the essence of the recited invention. Applicant argues that these references do not teach the ratio of distance between adjacent slots prior to expansion to a width of formed metal sheet prior to expansion is 1:8 or greater.

However it is clear there is expansion. It is certainly within the scope of both references to expand the web of the stud to the required dimensions for any particular construction project for which the stud is incorporated.

Herren and Bodnar were merely recited to show both forms of reinforcements around/proximate to the web slots and confined to the web elements and exclusive to the web voids.

The entire teaching of Bodnar and Herren is not bodily incorporated. Familiar in the construction art is that openings are many times reinforced to strengthen the structure around the openings and the structure itself. This knowledge is not exclusive to

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expandable web studs. Many times this teaching is not taught merely shown or either it is considered as a secondary consideration.

Further applicant argues that the depressions and flanges of Bodnar are not proximate the web slots and confined to the web elements and exclusive to the web voids. They are separate elements surrounding the web voids. The column and line numbers referenced by applicant's arguments page 5 the first paragraph are not supporting applicants arguments. The flanges are the reinforcements exclusive to the web voids.

Regarding the method:

Regarding claims 53:

It is important to note while giving further inspection to this claims, applicant does not recite the order of the method; the claims do not recite the process steps of heat treating after expanding the slots. The coordinating conjunction of "and" is used to join the steps in one method claim process. Therefore there is no need in explaining or justifying when and what type of heat treatment was involved. The claims merely recite heat treating and the expanding the metal slots. The base reference clearly discloses expanding the metal slots and Bodnar discloses heat treating metal frame members. Applicant does not specify the type of heat treatment. In view of the broad method limitations a broad interpretation is given. Arguments regarding the supposed method

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steps of "heat treating the member after expanding the slots" are therefore moot as not relating to the true recitation of the claimed method.

Regarding motivation to combine Knauf with Bodnar, applicant argues that Bodnar does not teach or suggest expanding the slots of the web region to form expanded slots having a web elements and a web void and heat treating the member. Again, the teaching of Bodnar is not being bodily incorporated into Knauf or Sucato. Further, Bodnar teaches that the hot rolled method can be applied to a wide variety of or different metal members. Again applicant does not specifically discuss the type of heat treatment process; therefore making it difficult to argue against any one type being cited against the claims. Bodnar clearly discloses that heat treatment is useful for frames with openings in order to strengthen the structure.

Regarding claim 54:

Applicant argues that Bodnar does not teach or suggest expanding the slots of the web region to form expanded slots having a web elements and a web void and heat treating the member after expanding the slots. In view of the teaching of the primary reference however it is clear that the heat treatment would have to take place after expanding the slot of Knauf or Sucato in order to avoid destroying the teaching of either reference. Again, the teaching of Bodnar is not being bodily incorporated into Knauf or Sucato. Further, Bodnar teaches that the hot rolled method can be applied to a wide variety of different section of metal members.

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For the sake of argument if the heat treatment were prior to expansion, the same still is active in strengthening the stud which is the purpose behind heat treatment. Hence, the purpose of the treatment is still realized making the criticality of heat treatment after expansion lacking in relevance.

Regarding the Declaration of Roger A. Laboube:

The declaration does not shows the equivalence of the 1:8 ratio and the specification page 6, line 26. Meaning the information in the declaration does not overcome the new matter rejection nor does it overcome or influence in any way the prior art rejection. Further, there is no nexus between what is disclosed in the declaration and what is recited in the claims.

Regarding the Declaration of Francis J. Roost:

The declaration does not shows the equivalence of the 1:8 ratio and the specification page 6, line 26. Meaning the information in the declaration does not overcome the new matter rejection nor does it overcome or influence in any way the prior art rejection. Further, there is no nexus between what is disclosed in the declaration and what is recited in the claims

Regarding exhibits B (Market (2002) in Tons After Applying Factors), C (Derivation of Weight per Foot (interior wall)), D (AMM Steel Base prices), E(derivation of material

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Savings) and the Data of Non-Statistical Analysis of the use of Cold Formed Steel in no Residential Construction.

The above documents contain a lot of information and data and some directed to commercial success. The claims of commercial success lacks a direct link and relevance to the claims. Further there is no evidence in the document overcoming the prior art or the new matter rejection. Further applicant does not reference or underline any information within the documents that directly relate to the claim language or provide information in overcoming the new matter rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chapman E Jeanette whose telephone number is 571-272-6841. The examiner can normally be reached on Mon.-Fri, 8:30-6:00, every other fri, off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Chilcot can be reached on 571-272-6777. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

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have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-217-9197 (toll-free).

/Jeanette E Chapman/ Primary Examiner, Art Unit 3633